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International Labour Organization



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International Occupational Safety and Health Information Centre (CIS)


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THIRAM		ICS# 0757 April 2000	
Tetramethylthiuram disulfide Bis (dimethylthiocarbamoyl) disulfide TMTD Tetramethylthioperoxydicarbonic diamide (((H ₂ N)C(S)) ₂ S ₂)		CURATIVE 	
CAS No: 137-26-8 RTECS No: JO1400000 UN No: 3077 EC No: 006-005-00-4		$C_6H_{12}N_2S_4 / (CH_3)_2N-CS-S-S-CS-N(CH_3)_2$ Molecular mass: 240.4	

TYPES OF HAZARD / EXPOSURE	ACUTE HAZARDS / SYMPTOMS	PREVENTION	FIRST AID / FIRE FIGHT
FIRE	Combustible. Liquid formulations containing organic solvents may be flammable. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Powder, water spray, foam, dioxide.
EXPLOSION	Finely dispersed particles form explosive mixtures in air.	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	
EXPOSURE		AVOID ALL CONTACT! AVOID EXPOSURE OF (PREGNANT) WOMEN!	
Inhalation	Confusion. Cough. Dizziness. Headache. Sore throat.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
Skin	Redness.	Protective gloves. Protective clothing.	Remove contaminated clothing. Rinse and then wash skin with water and soap.
Eyes	Redness. Pain.	Safety spectacles or eye protection in combination with breathing protection.	First rinse with plenty of water several minutes (remove contact lenses if easily possible), then to a doctor.
Ingestion	(See Inhalation).	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	PACKAGING & LABELLING	
Sweep spilled substance into containers. Carefully collect remainder, then remove to safe place. Chemical protection suit including self-contained breathing apparatus. Do NOT let this chemical enter the environment.	<p>Xn Symbol R: <u>20/22-36/37-40-43</u> S: <u>(2-)36/37</u> UN Hazard Class: 9 UN Pack Group: III</p>	Do not transport with food and feedstuffs. Marine pollutant.

EMERGENCY RESPONSE	STORAGE
Transport Emergency Card: TEC (R)-90G02	Separated from acids, strong oxidants, food and feedstuffs. Dry. Keep in a well-ventilated room.

IMPORTANT DATA	
<p>Physical State; Appearance COLOURLESS CRYSTALS.</p> <p>Physical dangers Dust explosion possible if in powder or granular form, mixed with air.</p> <p>Chemical dangers The substance decomposes on burning, producing toxic fumes including sulfur oxides, carbon disulfide. Reacts with strong oxidants, acids and oxidizable materials.</p> <p>Occupational exposure limits TLV: 1 mg/m³ (ACGIH 1997).</p>	<p>Routes of exposure The substance can be absorbed into the body by inhalation of its aerosol and by ingestion.</p> <p>Inhalation risk Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly on spraying or when dispersed, especially if powdered.</p> <p>Effects of short-term exposure The substance irritates the eyes, the skin and the respiratory tract.</p> <p>Effects of long-term or repeated exposure Repeated or prolonged contact may cause skin sensitization. The substance may have effects on the thyroid, liver.</p>

PHYSICAL PROPERTIES	ENVIRONMENTAL DATA
<p>Boiling point at 2.6 kPa: 129°C (see Notes) Melting point: 155-156°C (see Notes) Density: 1.3 g/cm³ Solubility in water: none Vapour pressure, Pa at 20°C: negligible Flash point: 89°C c.c. (see Notes) Octanol/water partition coefficient as log Pow: 1.82</p>	The substance is very toxic to aquatic organisms. Avoid release to the environment in circumstances different to normal use.

NOTES
<p>Physical properties reported in literature are inconsistent. Carrier solvents used in commercial formulations may change physical and toxicological properties. Use of alcoholic beverages enhances the harmful effect. If the substance is formulated with solvent(s) also consult the card(s) (ICSC) of the solvent(s).</p>

IPCS
International
Programme on
Chemical Safety



Prepared in the context of cooperation between the
International Programme on Chemical Safety and the
European Commission
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Updated by AS. Approved by EC. Last update: 10.10.2000

For further information please contact the International Occupational Safety and Health Information Centre
at Tel: +41.22.799.6740, Fax: +41.22.799.8516 or E-mail: cis@ilo.org

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